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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/528,293	03/16/2005	Cangyou Zhou	21055P	6442	
210 MEDCK AND	7590 11/16/2007			EXAMINER	
MERCK AND CO., INC P O BOX 2000			O DELL, DAVID K		
RAHWAY, NJ 07065-0907			ART UNIT	PAPER NUMBER	
			1625		
	·		MAIL DATE	DELIVERY MODE	
			11/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary						
		10/528,293`	ZHOU ET AL.			
		Examiner	Art Unit			
		David K. O'Dell	1625			
Period fo	The MAILING DATE of this communication app or Reply	lears on the cover sheet with th	e correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS for a cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).			
Status		,				
1)⊠	Responsive to communication(s) filed on 16 M	arch 2005.				
,—	This action is FINAL. 2b) ☑ This action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
5)	Claim(s) <u>1-36</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-36</u> are subject to restriction and/or expressions.	wn from consideration.				
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applic rity documents have been rece u (PCT Rule 17.2(a)).	cation No eived in this National Stage			
Attachmen	nt(s)	· _	,			
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:				

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DETAILED ACTION

1. This application is a 371 of PCT/US03/33980 10/24/2003 which claims benefit of 60/422,355 10/30/2002

Claims 1-36 are pending.

2. Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, Claims 1-2, 12-32 drawn to compounds and compositions reading on claim 1, Formula I, where W is H, m is 1 or 2, n is 1, Z is C, X is –(C=O)NH-, R2 is benzyl, drawn to piperidinylamino-benzamides, shown as structure I in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group II, Claims 1-2, 12-32 drawn to compounds and compositions reading on claim 1, Formula I, where W is H, m is 1 or 2, n is 0, Z is C, X is –(C=O)NH-, R2 is benzyl, drawn to pyrollidinylamino-benzamides, shown as structure II in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group III, Claims 1-2, 12-32 drawn to compounds and compositions reading on claim 1, Formula I, where W is H, m is 1 or 2, n is 1, Z is O, X is –(C=O)NH-, R2 is benzyl, drawn to morpholinylamino-benzamides, shown as structure III in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group IV, Claims 1, 3, 4, 10-32 drawn to compounds and compositions reading on claim 3, Formula Ib or If, m is 1 or 2, n is 1, Z is O, X is –(C=O)NH-, R2 is benzyl, drawn to piperidinyl-pyrollidinyl-benzamides, shown as structure IV in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group V, Claims 1, 5, 12-32 drawn to compounds and compositions reading on claim 5, Formula Ie, m is 1 or 2, n is 1, Z is O, X is -(C=O)NH-, R2 is benzyl, drawn to piperidinyl-isoindolyl-

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benzamides, shown as structure V in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group VI, Claims 1, 5, 12-32 drawn to compounds and compositions reading on claim 5, Formula Ie, m is 1 or 2, n is 0, Z is O, X is –(C=O)NH-, R2 is benzyl, drawn to pyrrolidinylisoindolyl-benzamides, shown as structure VI in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group VII, Claims 1, 5, 12-32 drawn to compounds and compositions reading on claim 5, Formula Ie, m is 1 or 2, n is 1, Z is NR10, X is –(C=O)NH-, R2 is benzyl, drawn to piperazinylisoindolyl-benzamides, shown as structure VII in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group VIII, Claims 1-2, 5, 12-32 drawn to compounds and compositions reading on claim 5, Formula Ie, m is 1 or 2, n is absent, Z is absent and R14 and R15 do not form any rings with nitrogen, X is -(C=O)NH-, R2 is benzyl, drawn to amino-isoindolyl-benzamides, shown as structure VIII in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group IX, Claims 1, 3, 4, 10-32 drawn to compounds and compositions reading on claim 3, Formula Ib or If, m is 1 or 2, n is 1, Z is NH, X is -(C=O)NH-, R2 is benzyl, drawn to piperazinyl-pyrollidinyl-benzamides, shown as structure IX in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group X, Claims 1, 3, 4, 10-32 drawn to compounds and compositions reading on claim 3, Formula Ib or If, m is 1 or 2, n is 0, Z is C, X is -(C=O)NH-, R2 is benzyl, drawn to bispyrollidinyl-benzamides, shown as structure X in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group XI, Claims 1, 7, 8, 10-32 drawn to compounds and compositions reading on claim 3, Formula Ib or If, m is 1 or 2, n is absent, Z is absent and R14 and R15 do not form any rings with nitrogen, X is -(C=O)NH-, R2 is benzyl, drawn to amino-pyrollidinyl-benzamides, shown as structure XI in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group XII, Claims 1, 3, 7, 8, 10-32 drawn to compounds and compositions reading on claim 3, Formula Ib or If, m is 1 or 2, n is 2, Z is C, X is –(C=O)NH-, R2 is benzyl, drawn to azepinyl-pyrollidinyl-benzamides, shown as structure XII in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

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Group XIII, Claims 1, 3, 7, 8, 10-32 drawn to compounds and compositions reading on claim 3, Formula Ib or If, m is 1 or 2, n is 1, Z is C, X is –(C=O)NH-, R2 is benzyl, drawn to piperidinyl-azetidinyl-benzamides, shown as structure XIII in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election may be made.

Group XIV, Claims 1-32 remaining compounds drawn to for example compounds and compositions reading on claim 3, Formula 1b or 1f, m is 1 or 2, n is 1, Z is C, X is –(C=O)NH-, R2 is benzyl, drawn to bis-piperidinyl-benzamides, shown as structure XIII in Figure 1. If this group is elected, a further election of a single disclosed species is also required. Further restriction based on the election will be made.

Group XV, Claim 33-36, drawn to methods of treating ameliorating, etc. inflammatory or immunoregulatory diseases, classified in class various subclass various, depending on species election, limited in scope to one of the compounds of groups I-XIV. If this group is elected, election of a single disclosed species of compound inflammatory or immunoregulatory disease is required. Further restriction based on the election will be made.

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The inventions listed as Groups I-XV do not relate to a single general inventive concept under 35 USC 121 or PCT Rule 13.1 because:

PCT Rule 13.1 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention").

PCT Rule 13.2 states that the unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Annex B, Part 1(a), indicates that the application should relate to only one invention, of if there is more than one invention, inclusion is permitted if they are so slinked to form a single general inventive concept.

Annex B Part 1(b), indicates that "special technical features" means those technical features that as a whole define a contribution over the prior art.

Annex B Part 1(c), further defines independent and dependent claims. Unity of invention only is concerned in relation to independent claims. Dependent claims are defined as a claim that contains all the features of another claim and is in the same category as the other claim.

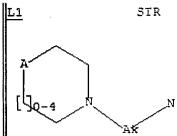
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The category of a claim refers to the classification of claims according to subject matter e.g. product, process, use, apparatus, means, etc.

Annex B Part 1(e), indicates that the permissible combinations of different categories of Part 1(e)I, states that inclusion of an independent claim for a given product, an independent claim for a process specially adapted for the manufacture of the said product, and an independent claim for a use of the said product is permissible.

Annex B, Part 1(f), indicates the "Markush practice" of alternatives in a single claim. Part 1(f)I, indicates the technical relationship and the same or corresponding special technical feature is considered to be met when (A) all alternatives have a common property or activity, and (B) a common structure is present or all alternatives belong to a recognized class of chemical Further defining (B), Annex B, Part 1(f)(i-iii), the common structure must; a) occupy a large portion of their structure, or b) the common structure constitutes a structurally distinctive portion, or c) where the structures are equivalent and therefore a recognized class of chemical compounds, each member could be substituted for one another with the same intended result. That is, with a common or equivalent structure, there is an expectation relationship and the corresponding special technical feature result from a common (or equivalent) structure that is responsible for the common activity (or property). Part 1(f) iv, indicates that when all alternatives of a Markush grouping can be differently classified, it shall no, take alone, be considered justification for finding a lack of unity.

A search of applicant's core gave numerous iterations and would not run to completion. This search is shown here:



Structure attributes must be viewed using STN Express query preparation.

--INCOMPLETE--

SAMPLE SEARCH INITIATED 18:01:10 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -669169 TO ITERATE

0.3% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE * * INCOMPLETE * *

BATCH PROJECTED ITERATIONS: 13337972 TO 13428788

1429401 TO 1461409 PROJECTED ANSWERS:

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It is projected that over 1.4 million compounds bear applicant's core, thus applicant's core is not novel over the prior art.

Inventions I-XIV and XV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case at least the method of treating cardiovascular disease can be practiced with surgery.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be **allowable**, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai; In re Brouwer and 35 U.S.C.§ 103(b)," 1184 O.G. 86 (March 26, 1996).

Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include all the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01. Filing of appropriate terminal disclaimer in anticipation of a rejoinder may speed prosecution and the process of rejoinder.

3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and

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specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David K. O'Dell whose telephone number is (571) 272-9071. The examiner can normally be reached on Mon-Fri 7:30 A.M.-5:00 P.M EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Primary examiner, Rita Desai can be reached on (571)272-0684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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D.K.O.

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RITA DESATINER

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